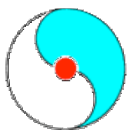




Run-6 Status

Abhay Deshpande
Stony Brook & RBRC

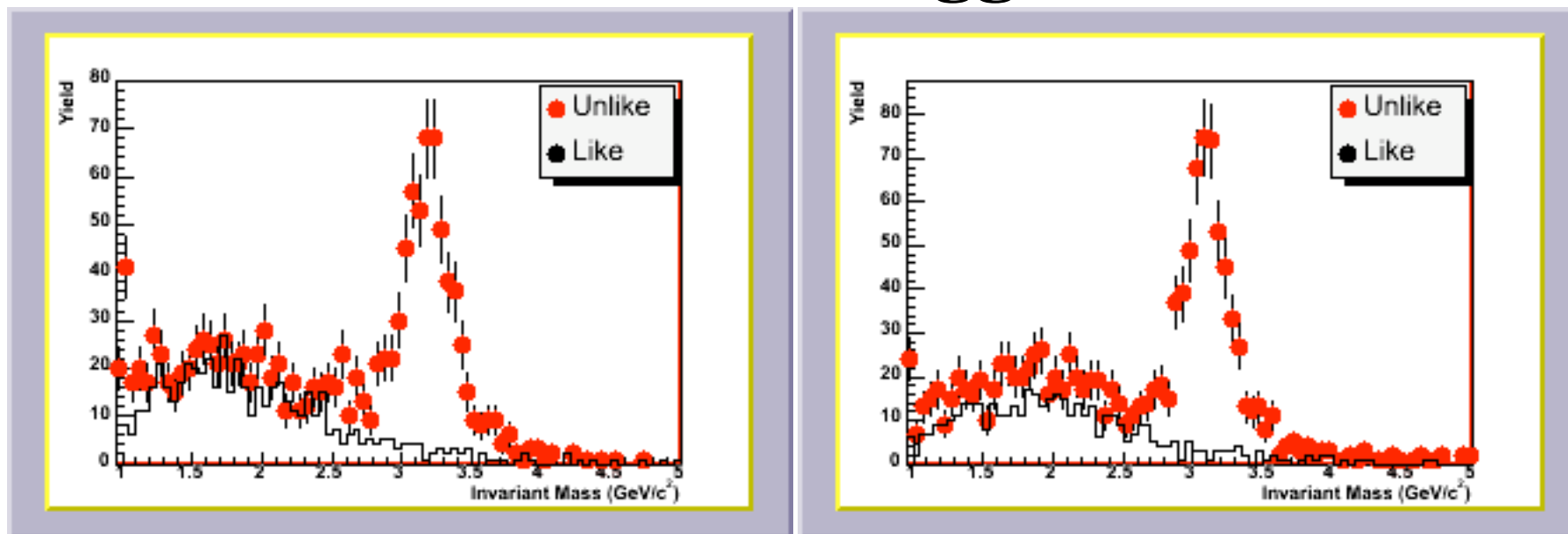
Time and Scheduling Meetings
March 28, 2006



Detector Status

- **Overall functions very well:**
- **No** major technical issues:
 - DAQ occasionally misbehaves, but neither persistently nor for “the same reason” or any *one* particular cause.
 - TEC gas Ar to Xe change underway, should be completed by tomorrow
 - MPC one card (48 channels) ready by this evening, and *may* be installed today; if not, then in a short access tomorrow
- Data transfers to Japan in progress, in the hands of shifts
- HPSS transfer with the shift crew as well
- Level II filter is now implemented
 - Local VA farm functions well, transfers to VU underway (specialist) still
 - QA of the LVL2 data being pursued
 - See next plot

Di-Muon trigger



- Red (unlike sign) vs. black-histogram (like sign) di-muon triggers in SOUTH (LEFT) & NORTH(RIGHT) arm of PHENIX
- LVL2 filter: 10% of our data transferred to Vanderbilt University computing farm
- Offline test/performance measures and QA works fine!
 - 0.31 pb-1 data, 432 \pm 26 J/Y expected in both arms (**480 \pm 40 seen**)
 - (3.1 \pm 0.2) GeV Gaussian mass fit
- *This is continuous process, automated in LVL2 filters data, shift crew transfers them, and VU farm analyzes them*

Run-6 Physics Status

- Radial transverse physics program:
 - **Minimum goal: 4 pb-1 at 50% polarization (FOM = 1.0)**
 - Optimistic goal: 5 pb-1 at 60% polarization (FOM = 1.8)
 - **OR 4 weeks (which-ever comes first)**
- At 2:00AM 2/27 we were at:
 - 1.6 pb-1 and 50% polarization
- Lost 3 days essentially to CA problems, and one shift to DAQ problem (Saturday owl-shift)
 - No Machine APEX experiments tonight, go straight to Physics after the source work
- **If we come back tonight and continue on the lumi and polarization path: (I expect)**
 - 2.5-3.0 pb-1 and 53-55% beam polarization by April 8 (4.5 weeks)
 - **FOM (assuming 53% and 2.8 pb-1) = 0.8**
- Exact dates for Transverse to Longitudinal are being discussed now as we take data and will be discussed with STAR in the RHIC Spin meeting on Friday